FIG. 1

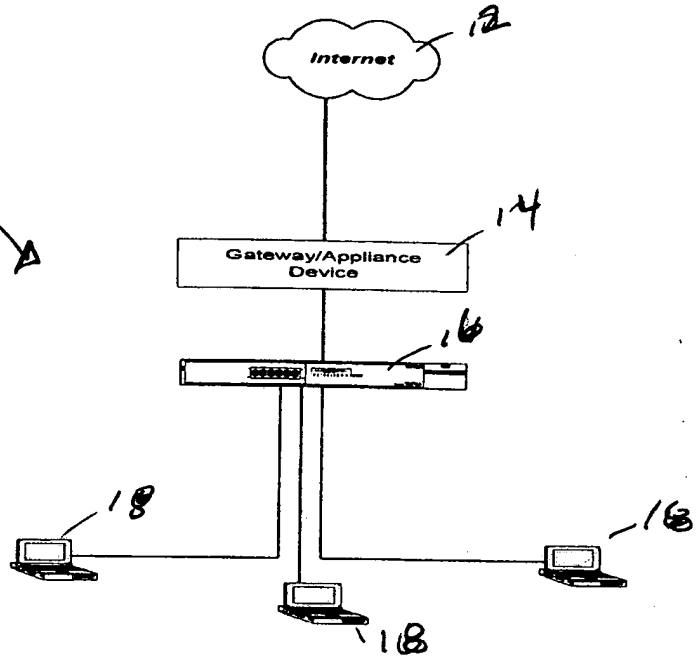

Internet
12
Gateway/Appliance Device
14
10
16
18
18
18

FIG. 2

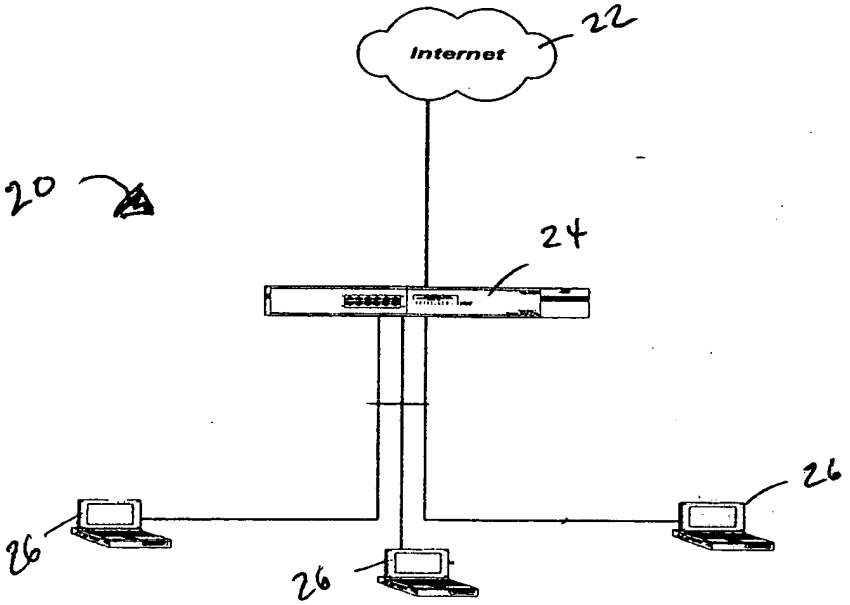

Internet
22
24
20
26
26
26

Figure 3

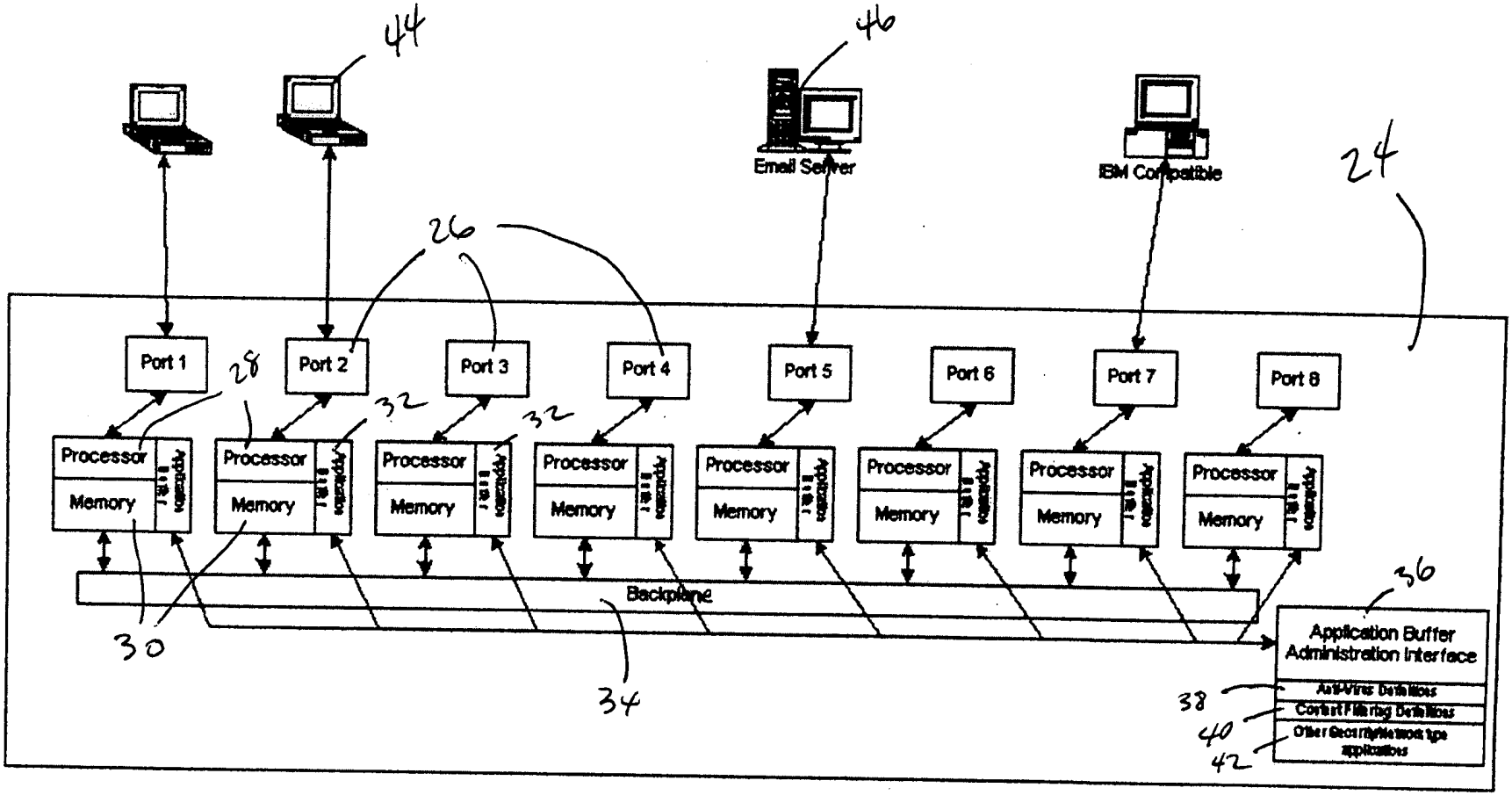

44
46
Email Server
IBM Compatible
24
26
Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
28
32
32
Processor
Memory
Application
Backplane
30
34
36
Application Buffer Administration Interface
38
40
42

Figure 4

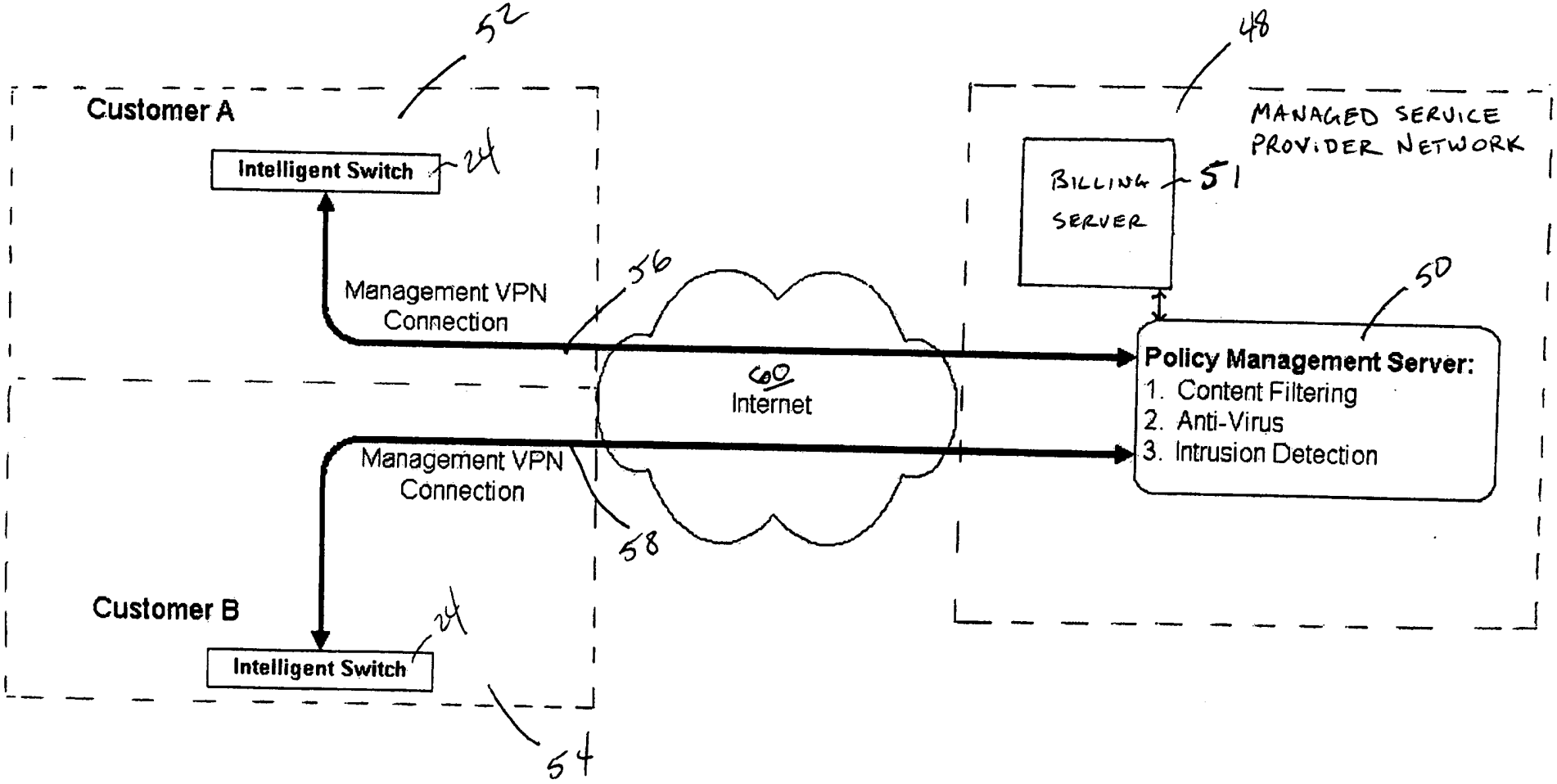

52
Customer A
Intelligent Switch
24
Management VPN Connection
56
Internet
60
Management VPN Connection
58
Customer B
Intelligent Switch
24
54
48
MANAGED SERVICE PROVIDER NETWORK
BILLING SERVER
51
50
Policy Management Server:
1. Content Filtering
2. Anti-Virus
3. Intrusion Detection

FIG. 5

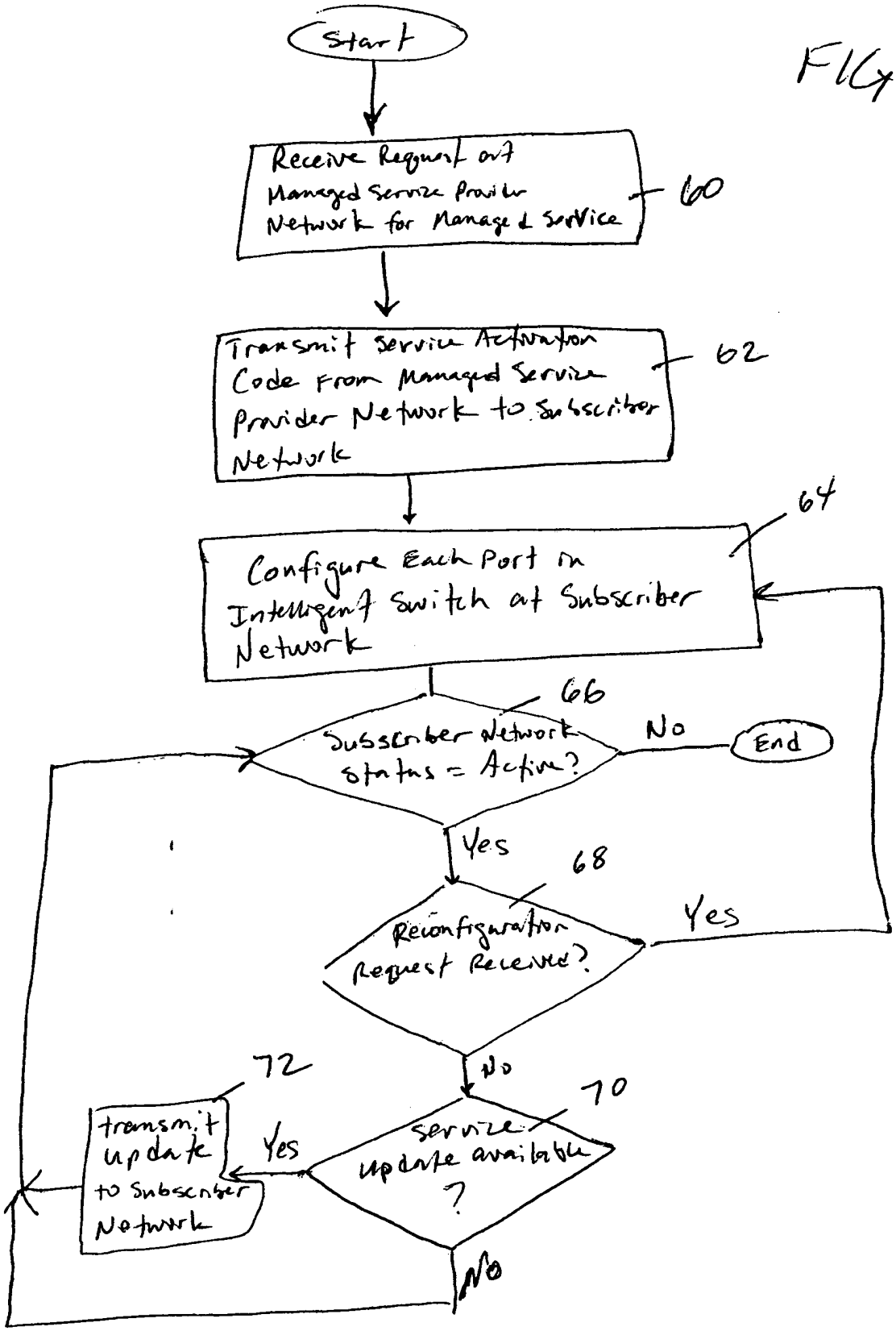
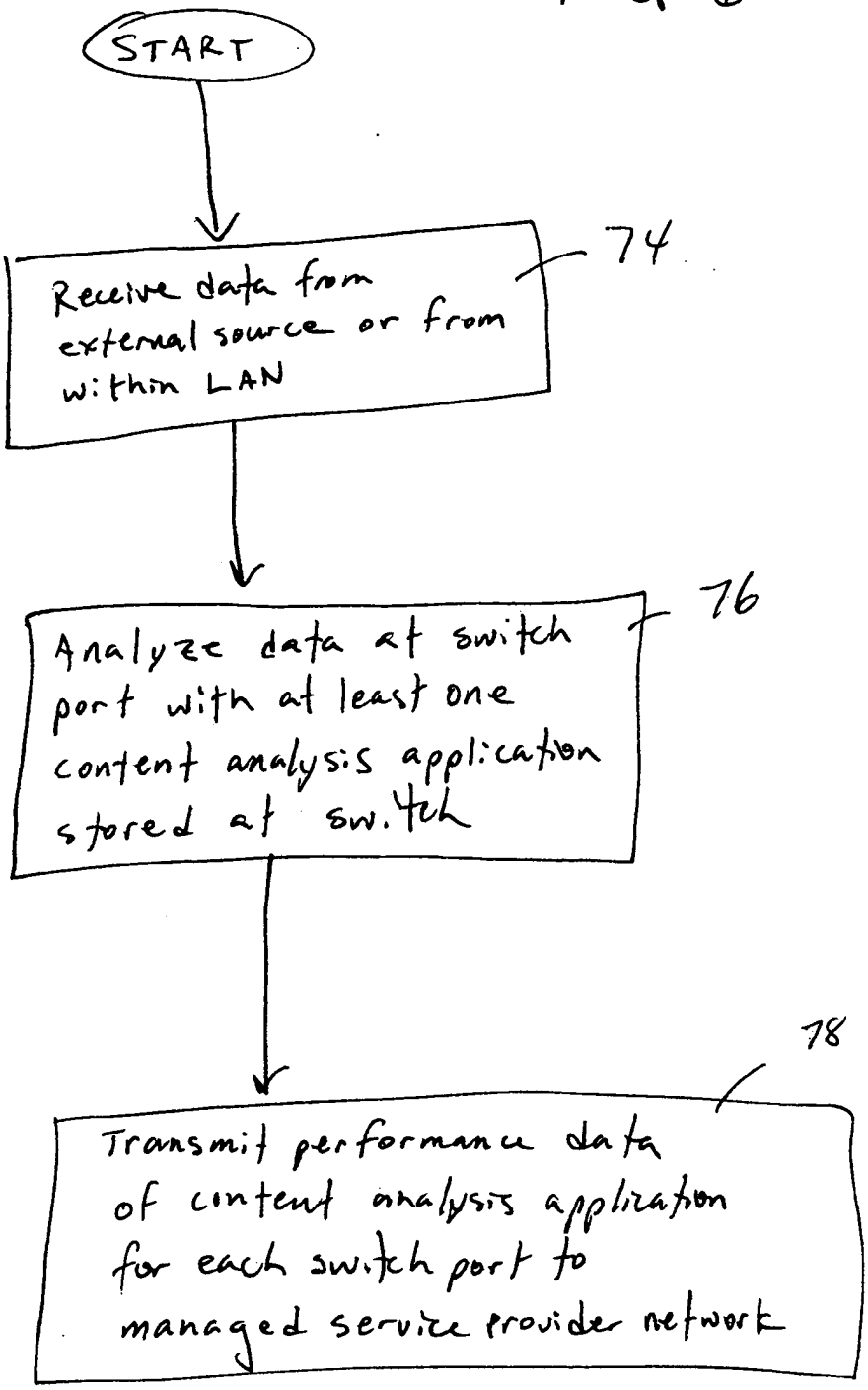

Start
Receive Request at Managed Service Provider Network for Managed Service
60
Transmit Service Activation Code from Managed Service Provider Network to Subscriber Network
62
Configure Each Port in Intelligent Switch at Subscriber Network
64
Subscriber Network status = Active?
66
No
End
Yes
Reconfiguration Request Received?
68
Yes
No
service update available?
70
Yes
transmit update to Subscriber Network
72
No

FIG. 6


START
Receive data from external source or from within LAN
74
Analyze data at switch port with at least one content analysis application stored at switch
76
Transmit performance data of content analysis application for each switch port to managed service provider network
78